

Datasheet

2.5" SATA SSD

3IE7 series

- 2.5" SATA SATA III solution for industrial field
- High IOPS
- iSMART disk health monitoring
- iPower Guard for protecting unstable start up and shut down.
- iData Guard for abnormal power failure



Introduction

Innodisk 2.5" SATA SSD 3IE7 is SATA III 6.0 Gb/s flash based disk, which adopts latest SATA III NAND controller with Innodisk's exclusive L³ FW architecture. The upgraded L³ FW architecture, combining Innodisk signature 4K mapping algorithm L² FW architecture with powerful LDPC technology, makes 3IE7 series have outstanding high IOPS, better data integrity and extended lifespan through reducing the bad block number happening. Built-in thermal sensor, and iData Guard ensure data integrity and reliability of 2.5" SATA SSD 3IE7 for industrial applications.

2.5" SATA SSD

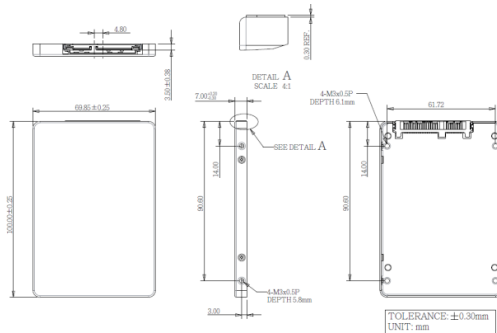
3IE7 series

Diagram

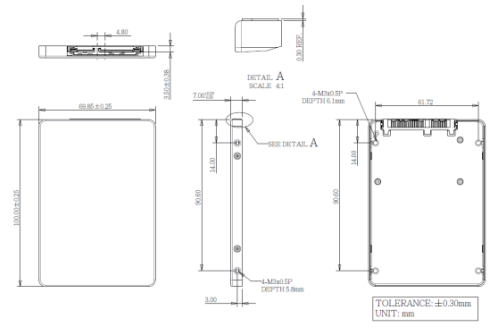
Contact us for more information about the 2.5" SATA SSD 3IE7.

Innodisk is a service-driven provider of industrial embedded flash and DRAM storage products and technologies, with a focus on the industrial/embedded, aerospace and defense, and cloud computing industries.

* DHS25-XXXDK1GXXL(320GB-64GB)



* DHS25-XXXDK1GXXL(40GB~160GB)



Specifications

Interface	SATA III
Flash Type	iSLC (3D TLC)
Capacity	40GB~640GB
Max. Channels	4
Sequential R/W (MB/sec, max.)*	550 / 520 MB/s
4KB Random (QD32) R/W (IOPS)**	73,000/59,000
Max. Power Consumption	3.3 W
Thermal Sensor	√
External DRAM Buffer	-
H/W Write Protect	-
ATA Security	√
S.M.A.R.T.	√
Dimension (WxLxH)	69.8 X 100.0 X 6.8 mm
Environment	Vibration: 20G @7~2000Hz Shock: 1500G @ 0.5ms Storage Temperature: -40°C ~ +85°C MTBF: 3 million hours

* Sequential performance based on CystalDiskMark 6.0.2 with file size 1000MB of Queue Depth 32

Headquarters (Taiwan)

5F., No.237, Sec. 1, Datong Rd., Xizhi Dist., New Taipei City, Taiwan (R.O.C.)
Tel: +886-2-77033000
Email: sales@innodisk.com

Branch Offices:

USA
usasales@innodisk.com
+1-510-770-9421
Europe
esusales@innodisk.com
+31-40-3045-400
Japan
jpsales@innodisk.com
+81-3-6667-0161
China
sales_cn@innodisk.com
+86-755-21673689
www.innodisk.com

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Ordering Information (Please refer to TPS for detail)

Operation Temp.	40GB	80GB	160GB	320GB	640GB
Standard Grade (0°C ~ +70°C)	DHS25-40GDK1%CCDL	DHS25-80GDK1%CC&L	DHS25-A60DK1%CCQL	DHS25-D2GDK1%CCQL	DHS25-F4GDK1%CCQL
Industrial Grade (-40°C ~ +85°C)	DHS25-40GDK1%WCDL	DHS25-80GDK1%WC&L	DHS25-A60DK1%WCQL	DHS25-D2GDK1%WCQL	DHS25-F4GDK1%WCQL

%. G=96 layers 3D TLC; K=112 layers 3D TLC

&. D=2 channels; Q=4 channels

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